

July 20 - July 26, 2001

The Terra spacecraft is currently operating in nominal mode. All instruments are in nominal science mode.

The MODIS instrument continues to operate in normal science mode on its Side A electronics (Command Processor A, Power Supply 1). The Anomaly Team continues to meet weekly and is in the process of preparing a summary report on the June 15, 2001, event. A presentation on the anomaly summarizing the status of the analysis was held on Monday, July 30, in the EOS Operations Center Mission Status Room.

A MODIS lunar calibration roll is planned for August 9. This will afford a better lunar view than the maneuver executed on July 10. The July 10 maneuver was conducted two orbits later than originally requested due to a conflict with the planned CLAMS field campaign over the Chesapeake Bay. The August 9 maneuver is expected to provide additional data relevant to the proposed transition back to MODIS B-side components.

The CLAMS field campaign involving Terra is ongoing. MODIS, CERES, and MISR continue to participate in CLAMS.

MOPITT continues to operate with one cooler, allowing useful data to be collected from detectors 5-8. The MISR Science Team has completed a detailed photogrammetric analysis of recent images to determine the effects of operating the MOPITT coolers in a slightly unbalanced mode. No jitter was detected in the analysis, so MOPITT can continue to operate in this mode. Degradation of science data is expected as result of achieving operating temperature on only one cooler. A full report on the effects on the science data as well as the anomaly itself is forthcoming.

The ASTER Team from Japan arrived at GSFC on July 23 to support the execution of the Shortwave Infrared (SWIR) temperature adjustments. Thermal Subsystem Engineers from the GSFC Thermal Branch and the spacecraft contractor also participated in the activity. The SWIR Capillary Pumped Heat Transport System set point was successfully lowered by 4.5°C in 1.5°C increments on July 24, 25, and 26.

The ASTER Team will be at GSFC until August 1, and will participate in additional meetings (exclusive of those related to the SWIR temperature adjustments) with Mission Operations Project personnel and the Terra Flight Operations Team (FOT). Topics will include initiation of ASTER Direct Downlink (DDL) to Japan, anomalies with the Solid State Recorder, MOPITT and MODIS instruments, and the refinement of current operational procedures and protocols. The proposed Deep Space Calibration Maneuver will also be a subject of discussion, along with ASTER issues related to the execution of the maneuver.

Several MDA2BITE trips (High Gain Antenna Motor Drive Assembly opto-coupler Single-Event Upsets) occurred during this reporting period with no loss of data.